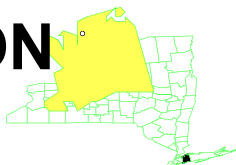


STANTON CLEANERS AREA GROUNDWATER CONTAMINATION NEW YORK

EPA ID# NYD047650197



EPA REGION 2
CONGRESSIONAL DIST. 05
Nassau County
Town of Great Neck

Site Description

The Stanton Cleaners Area Groundwater Contamination site (Site) includes an active dry-cleaning business, located at 110 Cutter Mill Road in the Town of North Hempstead, Nassau County. The Stanton Cleaners Property (SCP) is approximately 1/4-acre in size and includes a one-story building in which the dry-cleaning business operates and an adjacent one-story boiler/storage building. Most of the SCP has been paved with asphalt except for a narrow strip at the rear of the property. Adjoining properties include an indoor tennis facility, a synagogue and day-care facility, a condominium and a service station. The surrounding community is zoned commercial/residential and is serviced by public sewer and water. The public water is supplied by the Water Authority of Great Neck North (WAGNN). Three public water supply wells are located approximately 1000 feet downgradient of the SCP.

As a result of past disposal practices, tetrachloroethylene or PCE has migrated from the subsurface soils into the indoor environments of the above-referenced affected buildings adjacent to the SCP and into the groundwater beneath the Site. Levels of PCE, a solvent commonly used by dry cleaners, have been found above Federal and State drinking water standards in the WAGNN public water supply wells.

Site Responsibility: This site is being addressed through Federal and State actions.

NPL LISTING HISTORY

Proposed Date: 01/19/99

Final Date: 05/06/99

Threats and Contaminants



Improper handling and disposal of spent dry cleaning solvents at the SCP resulted in the release of hazardous wastes, including PCE, at the Site. Some of this material migrated through the Site soils to nearby buildings and the groundwater, resulting in a significant threat to human health. The removal action discussed below has addressed the soil gas/indoor air threat posed to those occupying nearby buildings. The WAGNN public water supply wells have added treatment systems and are routinely monitored to ensure that the drinking water supply is in compliance with Federal and State drinking water standards.

Cleanup Approach



The Site is being addressed in two steps: 1) immediate actions and 2) a long-term remedial phase, focusing on the cleanup of contaminated soils, indoor air and groundwater for the entire Site.

Response Action Status



Immediate Action: Under its removal authority, EPA funded and installed a soil vapor extraction (SVE) system on the SCP to remediate the VOC-contaminated soils, thus reducing the indoor air contamination in the adjacent affected buildings to safe levels. The VOC-contaminated vapors are being treated by a granular activated carbon (GAC) system. The SVE system is expected to be operational for at least three years before soil cleanup objectives are met.

Entire Site: In March 1999, EPA issued a Record of Decision identifying a selected remedy for Operable Unit One which included 1) an upgrade of the existing groundwater air stripper on the SCP, 2) construction of a groundwater extraction and treatment system for the Site, 3) continued operation of the SVE system, 4) indoor air monitoring of the affected buildings adjacent to the SCP, 4) long term groundwater monitoring and 6) groundwater use restrictions. The existing groundwater air stripper has been upgraded. The new groundwater extraction and treatment system is currently operational in a start-up phase.

Site Facts: In 1983, approximately 20 cubic yards of PCE-contaminated soil was removed from behind the Stanton Cleaners property.

In 1989, a groundwater extraction and treatment system was installed to address groundwater contamination which resulted from improper disposal of spent PCE behind the SCP building. This system worked only intermittently since its construction.

In 1998, NYSDEC funded the construction of a new air stripper treatment system for the WAGNN water supply wells which are impacted by contamination from the Site. This new treatment system is currently in operation.

In September 1998, under its removal authority, EPA installed a soil vapor interceptor system to mitigate impacts from PCE vapors to the tennis club.

Cleanup Progress



An SVE system is directly addressing surface and subsurface soil contamination. Within the contaminated soils, a series of SVE wells have been installed where significant concentrations of PCE have been detected. Soil vapors containing VOCs are being extracted from the soils by an above ground vacuum system. The contaminated vapors are being treated by a GAC system. A low permeability cover has been placed over the affected soils to enhance the system's efficiency by controlling short-circuiting with atmospheric air.

Concentrations of PCE in indoor air have been dramatically reduced. Through the implementation of this soil remediation technology, the problems associated with indoor air quality in adjacent buildings are being addressed. In addition, the SVE system is reducing the mass of contaminants in the soils, thereby reducing the cross media impacts to groundwater. The performance of the SVE system is being monitored using soil vapor probes.

In January 2002, EPA also removed some underground storage tanks on the SCP. This excavated area has been fitted with an SVE well and is currently part of the SVE system for PCE removal.

As part of the selected remedy, an operations building has been constructed to house the SVE system and the groundwater pump and treat system. The pump and treat system is currently operating in the start-up phase and has treated over 8 millions gallons of contaminated groundwater. The contaminated water is pumped through an air stripper and carbon filtering system. The clean water is discharged to the storm sewer.

EPA is also currently investigating other potential off-site sources of VOC groundwater contamination. These potential sources are directly related to sites that NYSDEC is investigating in the area of the SCP. These potential off-site sources will be evaluated in a report expected to be completed in 2002.

Site Repository



Great Neck Library, Bayview Avenue @ Gristmill Lane, Great Neck, New York 11014.